10

| DATA INPUT — 12 | 22 — DATA INPUT |
| CHANNEL CODING — 14 | 24 — CHANNEL CODING |
| INTER - FRAME INTERLEAVING — 16 | 26 — INTER - FRAME INTERLEAVING |
| RATE MATCHING — 18 | 28 — RATE MATCHING |

13

23

MULTIPLEXING — 30

INTRA - FRAME INTERLEAVING — 32

MODULATION / TRANSMISSION — 34

FIG. 1

DATA INPUT: $a_{11}$ $a_{12}$ ---- $a_{1k}$ $a_{21}$ $a_{22}$ ---- $a_{2k}$ $a_{31}$ $a_{32}$ ---- $a_{3k}$ ----

FIG. 2A

DATA INPUT: $A_{11}$ $A_{12}$ ---- $A_{1n}$ $A_{21}$ $A_{22}$ ---- $A_{2n}$ $A_{31}$ $A_{32}$ ---- $A_{3n}$ ----

FIG. 2B

INTERLEAVING MATRIX

| $A_{11}$ | $A_{12}$ | $A_{13}$ | $A_{14}$ |
|---|---|---|---|
| $A_{15}$ | $A_{16}$ | $A_{17}$ | $A_{18}$ |
| $A_{21}$ | $A_{22}$ | $A_{23}$ | $A_{24}$ |
| $A_{25}$ | $A_{26}$ | $A_{27}$ | $A_{28}$ |
| $A_{31}$ | $A_{32}$ | $A_{33}$ | $A_{34}$ |
| $A_{35}$ | $A_{36}$ | $A_{37}$ | $A_{38}$ |
| $A_{41}$ | $A_{42}$ | $A_{43}$ | $A_{44}$ |
| $A_{45}$ | $A_{46}$ | $A_{47}$ | $A_{48}$ |

FIG. 2C

44a  44b  44  44

DELETION / REPETITION PATTERN

| 1 | 0 | 0 | 0 |
|---|---|---|---|
| 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 |

FIG. 2D

```
┌─────────────────────────────┐
│   DE - MULTIPLEXED  INPUT   │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│          DATA               │──── 50
│      RECONSTRUCTION         │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│      DE - INTERLEAVER       │──── 52
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│         DECODING            │──── 54
└─────────────────────────────┘
              │
              ▼
```
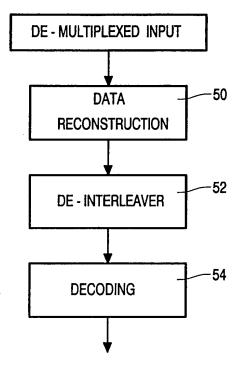
# FIG. 3